

I CLAIM:

1. A bone conducting headset apparatus comprising
headset unit including an adjustable spring biased headset
member including an adjustable length head strap and a neck strap provided
with a spring biasing member wherein, the head strap has opposite ends that
join the neck strap in a generally perpendicular fashion;
a microphone speaker unit including at least a pair of
speaker/microphone members including an inner bone conducting component
and an outer environmental noise component disposed at one end of the
junctures between the head strap and the neck strap wherein, the at least one
speaker/microphone member is disposed in intimate contact with the wearer's
head bone; and
an electronic control unit including an electronic control member
operatively connected to the microphone/speaker unit and further provided with
an on/off switch and means for positioning the electronic control member on a
selected article of clothing worn by the user.
2. The apparatus as in claim 1; wherein, the electronic control member is
further provided at least in part with at least one dial that controls audio
amplification and/or audio reduction.
3. The apparatus as in claim 1; wherein, the electronic control member is
further provided at least in part with a three position switch having an
intercom position, a listen only position and a first push to talk position.
4. The apparatus as in claim 2; wherein, the electronic control member is
further provided at least in part with a three position switch having an
intercom position, a listen only position and a first push to talk position.
5. The apparatus as in claim 1; wherein, the electronic control member is
further provided with high noise cut-off means wherein, noise above a
preset decibel level will not be transmitted through the at least one
speaker microphone member.

6. The apparatus as in claim 2; wherein, the electronic control member is further provided with high noise cut-off means wherein, noise above a preset decibel level will not be transmitted through the at least one speaker microphone member.
7. The apparatus as in claim 3; wherein, the electronic control member is further provided with high noise cut-off means wherein, noise above a preset decibel level will not be transmitted through the at least one speaker microphone member.
8. The apparatus as in claim 4; wherein, the electronic control member is further provided with high noise cut-off means wherein, noise above a preset decibel level will not be transmitted through the at least one speaker microphone member.
9. The apparatus as in claim 1; wherein, the electronic control member is operatively connected to a pair of microphones for directional hearing.
10. The apparatus as in claim 2; wherein, the electronic control member is operatively connected to a pair of microphones for directional hearing.
11. The apparatus as in claim 3; wherein, the electronic control member is operatively connected to a pair of microphones for directional hearing.
12. The apparatus as in claim 4; wherein, the electronic control member is operatively connected to a pair of microphones for directional hearing.
13. The apparatus as in claim 5; wherein, the electronic control member is operatively connected to a pair of microphones for directional hearing.
14. The apparatus as in claim 6; wherein, the electronic control member is operatively connected to a pair of microphones for directional hearing.

15. The apparatus as in claim 1; wherein, the microphone/speaker unit comprises a pair of speaker/microphone members wherein, both said pair of speaker/microphone members are disposed at the juncture of the head strap and the neck strap.
16. The apparatus as in claim 2; wherein, the microphone/speaker unit comprises a pair of speaker/microphone members wherein, both said pair of speaker/microphone members are disposed at the juncture of the head strap and the neck strap.
17. The apparatus as in claim 3; wherein, the microphone/speaker unit comprises a pair of speaker/microphone members wherein, both said pair of speaker/microphone members are disposed at the juncture of the head strap and the neck strap.
18. The apparatus as in claim 5; wherein, the microphone/speaker unit comprises a pair of speaker/microphone members wherein, both said pair of speaker/microphone members are disposed at the juncture of the head strap and the neck strap.
19. The apparatus as in claim 9; wherein, the microphone/speaker unit comprises a pair of speaker/microphone members wherein, both said pair of speaker/microphone members are disposed at the juncture of the head strap and the neck strap.
20. The apparatus as in claim 1; wherein, the at least one of the speaker/microphone members includes a boom microphone element.
21. The apparatus as in claim 15; further including a boom microphone element that is interchangeable between said pair of speaker/microphone members.

22. The apparatus as in claim 9; wherein, the pair of microphones for directional hearing are incorporated into the pair of speaker/microphone members.
23. The apparatus as in claim 15; wherein, the pair of microphones for directional hearing are incorporated into the pair of speaker/microphone members.
24. The apparatus as in claim 3; wherein, the electronic control member is further provided with a second push to talk button to allow communication over two radios.
25. The apparatus as in claim 4; wherein, the electronic control member is further provided with a second push to talk button to allow communication over two radios.
26. The apparatus as in claim 9 further including a third microphone connected to the electronic control member to provide an elevational component to the directional hearing.
27. The apparatus as in claim 26; wherein, the third microphone is disposed on the headset member.